

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRN00-0006-04(032)	125	228

GENERAL NOTES

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
207-0203	22	CY	FOUND BKFILL MATL, TP II
211-0300	177	CY	BRIDGE EXCAVATION, STREAM CROSSING
500-0100	2683	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (1159)
500-3002	328	CY	CLASS AA CONCRETE
507-9030	918	LF	PSC BEAMS, AASHTO, BULB TEE, 54 IN, BR NO - 1
507-9032	2502	LF	PSC BEAMS, AASHTO, BULB TEE, 72 IN, BR NO - 1
511-1000	44526	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (219206)
516-1100	681	LF	ALUM HANDRAIL, STD 3626
520-1151	1015	LF	PILING IN PLACE, STEEL H, HP 14 X 89
520-1173	640	LF	PILING IN PLACE, STEEL H, HP 14 X 102
520-4151	1	EA	LOAD TEST, STEEL H, HP 14 X 89 (IF REQD)
520-4173	1	EA	LOAD TEST, STEEL H, HP 14 X 102 (IF REQD)
524-0010	96	LF	DRILLED CAISSON - 66 IN
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO - 15+00
603-2024	2216	SY	STN DUMPED RIP RAP, TP I, 24 IN
603-7000	2216	SY	PLASTIC FILTER FABRIC
△ 620-0200	1100	LF	TEMPORARY BARRIER, METHOD NO. 2

BRIDGE CONSISTS OF

- 1 - 93'-0" BULB TEE, 54 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - 126'-0" BULB TEE, 72 IN, PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN
- 2 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 3 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)  
(L = 4'-0"; W = 1'-1"; H = 3'-5 3/4")
- ONE PIPE ALUMINUM HANDRAILING ----- GA. STD. 3626 (10-22-85)
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- CONCRETE BARRIERS - TEMPORARY ----- GA. STD. 4960 (5-10-07)
- DETAILS OF PRECAST TEMPORARY BARRIERS ----- GA. STD. 4961 (5-2-01)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

DESIGN DATA

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002  
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL HS20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE: SUPERSTRUCTURE ----- CLASS AA,  $f_c = 3,500$  PSI  
PSC BEAMS ----- CLASS AAA,  $f_c =$  SEE BEAM SHEETS  
PSC BEAM ALLOWABLE TENSION ----- SEE BEAM SHEETS  
SUBSTRUCTURE ----- CLASS AA,  $f_c = 3,500$  PSI

REINFORCEMENT STEEL: ----- GRADE 60,  $f_y = 60,000$  PSI

PRETENSIONING STRANDS: -----  $f_p = 270,000$  PSI

TRAFFIC DATA

TRAFFIC ----- ADT = 28,644 (2008)  
ADT = 38,192 (2028)

DESIGN SPEED ----- 45 MPH

TRUCKS ----- 4 %

24 HR TRUCKS ----- 6 %

DIRECTIONAL ----- 60 %

UTILITIES

10 INCH DIAMETER WATER MAIN (STAGE II) ----- CITY OF THOMASTON

LIGHTS ----- CITY OF THOMASTON

DRAINAGE DATA

DRAINAGE AREA ----- 154 SQ MILES				
FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	12091 CFS	3.96 FPS	3052 SQ FT	0.48 FT
100 YEAR	14121 CFS	4.18 FPS	4034 SQ FT	0.59 FT
500 YEAR	19326 CFS	4.79 FPS	4278 SQ FT	0.99 FT

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.

TEMPORARY BARRIERS, METHOD 1 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 AND 4961 TO PROVIDE FOR TWO -10'-0" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SECTION 620 OF THE GEORGIA DOT SPECIFICATIONS.

TEMPORARY BARRIERS, METHOD 2 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 TO PROVIDE FOR TWO - 10'-0" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SECTION 620 OF THE GEORGIA DOT SPECIFICATIONS.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS ARE NOT AVAILABLE. WIDENED BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS FIRST WIDENED UNDER PROJECT NUMBER PW-FAP 346(2) AND WAS WIDENED AGAIN UNDER PROJECT NUMBER RFU-006-4(13).

EPOXY RESIN ADHESIVE - APPLY EPOXY RESIN ADHESIVE TYPE II TO ALL HARDENED CONCRETE SURFACES JUST PRIOR TO POURING THE CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OF THE GEORGIA DOT SPECIFICATIONS. INCLUDE THE COST OF EPOXY ADHESIVE AND ITS APPLICATION IN THE OVERALL BID SUBMITTED.

WAITING PERIOD - NONE REQUIRED.

FOUNDATION BACKFILL MATERIAL - PLACE 1'-0" OF TYPE II FOUNDATION BACKFILL MATERIAL UNDER EACH FOOTING AT BENT 2. THE QUANTITY IS BASED ON THE PLAN FOOTING DIMENSIONS PLUS 2'-0".

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENTS 2 AND 4.

SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

FILL SETTLEMENT - PROTECT PILES DRIVEN AT BENT 1 STAGE II FROM NEGATIVE SKIN FRICTION WHEN USED IN CONJUNCTION WITH MECHANICALLY STABILIZED EARTH WALLS, SEE SECTION 551 OF THE GEORGIA DOT SPECIFICATIONS. DRIVE PILES AT END BENT 1 STAGE II BEFORE WALL LEVELING PADS ARE CONSTRUCTED.

UTILITY CASING - ENCASE EACH UTILITY WITHIN THE LIMITS OF THE WALL BACKFILL IN A CONCRETE PIPE EXTENDING FROM THE BACK FACE OF THE BRIDGE END WALL TO 2'-0" BEYOND THE LIMIT OF THE MSE WALL BACKFILL MATERIAL. THE PIPE SHALL BE SUPPLIED AND PLACED BY THE CONTRACTOR DURING CONSTRUCTION OF THE WALL. TAKE CARE NOT TO DAMAGE WALL MESH OR STRAPS.

WATER MAIN HANGERS - PIPE ROLL SUPPORT ASSEMBLIES AND KEEPER STRAPS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. FURNISH AND INSTALL ALL OTHER COMPONENTS OF HANGER ASSEMBLIES AND INCLUDE THE COST IN THE OVERALL BID SUBMITTED.

STANDARD PLAN MODIFICATION - MODIFY THE APPROACH SLAB STANDARD TO INCREASE THE 3/4" EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND END POST TO 1 1/2"AT BENT 1. SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.

GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

SALVAGE OF EXISTING BRIDGE MATERIALS - ALUMINUM HANDRAIL, POST AND PLAQUES ARE SALVAGED FOR USE BY THE GEORGIA DOT. THE SALVAGED MATERIALS SHALL NOT BE CUT. THE CONTRACTOR SHALL LOAD, TRANSPORT, AND UNLOAD THESE MATERIALS. THESE MATERIALS SHALL BE DELIVERED TO THE DISTRICT 3 STORAGE AREA LOCATED IN BUTLER, GEORGIA. NOTIFY THE DISTRICT BRIDGE MAINTENANCE ENGINEER TWO WEEKS PRIOR TO DELIVERY.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

REMOVE BOULDERS - REMOVE BOULDERS AT BENT 1, 2, AND 4 TO FACILITATE PILE DRIVING OPERATIONS. INCLUDE ALL COST FOR REMOVAL IN OVERALL BID SUBMITTED.

BRIDGE NO. 1

GEORGIA

DEPARTMENT OF TRANSPORTATION

PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES

SR 3 (US 19) OVER POTATO CREEK

UPSON COUNTY

BRN00-0006-04(032)

SCALE: NONE

MAY 2009

DESIGNED: **DPD**

CHECKED: **FAQ**

REVIEWED: **WMD**

DRAWN: **DPD**

GDOT LIAISON: **SWW**

APPROVED: **PVL**

DATE

4-1-2011

REVISED

ADDED TEMP. BARRIER 2 QTY